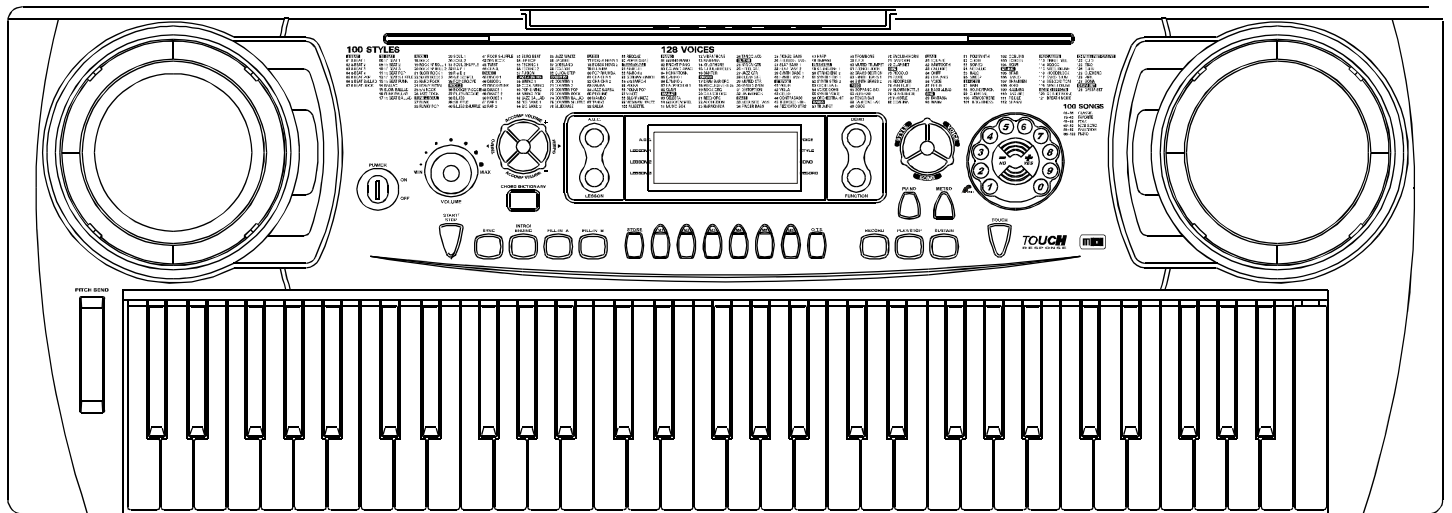


Instruction Manual

ELECTRONIC KEYBOARD

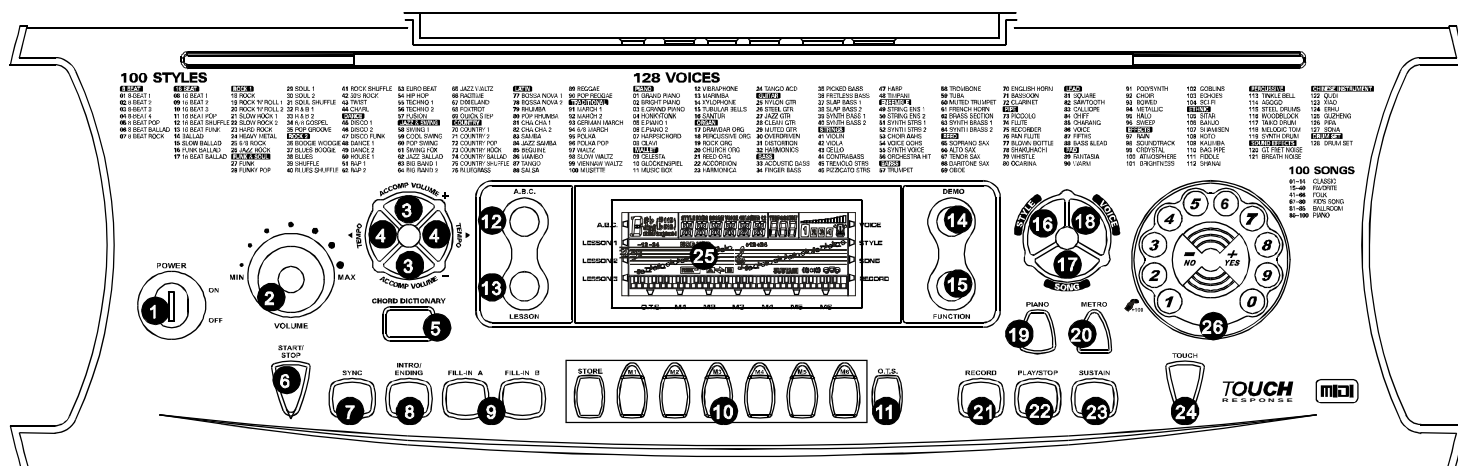


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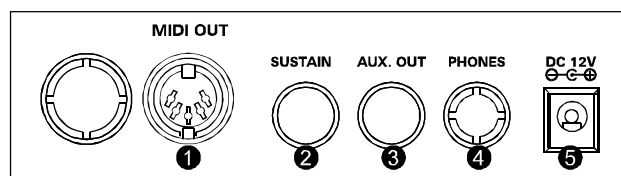
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General Guide



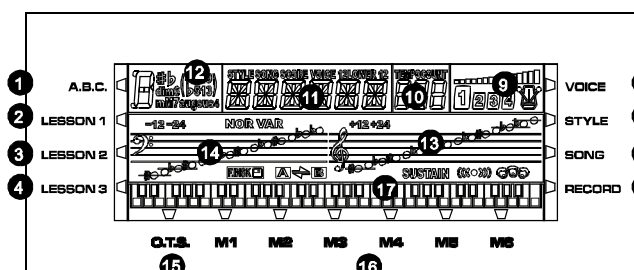
1. FRONT PANEL

- 1 POWER SWITCH
- 2 MASTER VOLUME
- 3 ACCOMP VOLUME
- 4 TEMPO
- 5 CHORD DICTIONARY
- 6 START/STOP
- 7 SYNC
- 8 INTRO/ENDING
- 9 FILL-IN A/FILL-IN B
- 10 STORE/M1-M6
- 11 O.T.S.
- 12 AUTO BASS CHORD
- 13 LESSON
- 14 DEMO
- 15 FUNCTION
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- 17 SONG
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- 27 PITCH BEND



2. REAR PANEL JACK

- 1 MIDI OUT
- 2 SUSTAIN
- 3 AUX. OUT
- 4 PHONES
- 5 DC 12V



3. LCD DISPLAY

- 1 A.B.C.
- 2 LESSON 1
- 3 LESSON 2
- 4 LESSON 3
- 5 VOICE
- 6 STYLE
- 7 SONG
- 8 RECORD
- 9 BEAT
- 10 TEMPO/COUNT
- 11 VOICE NUMBER
- 12 CHORD
- 13 TREBLE CLEF
- 14 BASS CLEF
- 15 O.T.S.
- 16 M1-M6
- 17 KEYBOARD

Introduction

Thank you for purchasing the electronic keyboard. This electronic keyboard provides you the following features and functions.

- 128 Voices (121 PCM voices, 6 Chinese voices and one set of drum kit).
- 100 auto accompany styles.
- 100 songs of different style.
- The song lesson mode can be used in three status (Lesson 1, Lesson 2, Lesson 3)
- Chord dictionary for beginners.
- 6 memory storage
- MIDI compatibility
- Song recording

Care of your electronic keyboard

Your keyboard will give you much pleasure if you follow the simple rules given below:

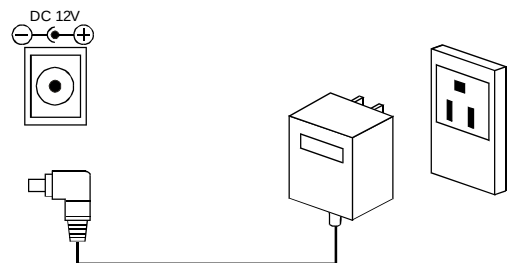
- Do not expose the electronic keyboard to the high temperature, direct sunlight, and excessive dust places.
- Avoid physical shocks caused by dropping, bumping, or placing heavy objects on the electronic keyboard.
- Never use cleaners such as alcohol or thinner to clean the electronic keyboard.
- Always turn power off when making any connections.

Power supply

This electronic keyboard can be powered by current from a standard household wall outlet (using the specified AC adaptor) or by batteries.

Using the AC adaptor

Make sure that only the AC specified adaptor for this electronic keyboard is used. The adaptor shall be 12V DC output, 800mA, and center positive type. Make sure to turn off the electronic keyboard before you connect the adaptor into the AC wall outlet.



Cautions:

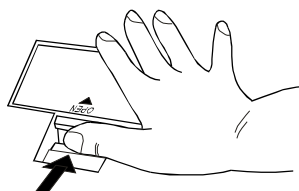
- Use only the specified AC adaptor. Use of another type of adaptor has a danger of fire and electrical shock.
- For safety sake, make sure to unplug the AC adaptor from the wall outlet whenever leaving the electronic keyboard unattended for a long time.

Using batteries

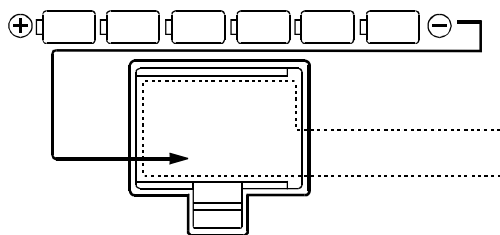
Always make sure to turn the keyboard off before inserting new batteries or replacing old ones.

To insert the batteries

1. Open the battery compartment underneath the keyboard.



2. Insert 6 "D" size batteries into the battery compartment by following the polarity markings on the cabinet.



3. Close the battery compartment and make sure the battery compartment cover locks firmly.

Low battery indications

Any of the following symptoms indicate low battery power. Replace the batteries as soon as possible whenever any of the following occurs.

- A dim and difficult-to-read LCD display.
- Abnormally low speaker/headphone volume.
- Distortion of the sound output.
- Sudden power failure when playing at high volume.
- Abnormal playing of the rhythms or demo songs.
- Dimming of the display when playing at high volume.

Cautions:

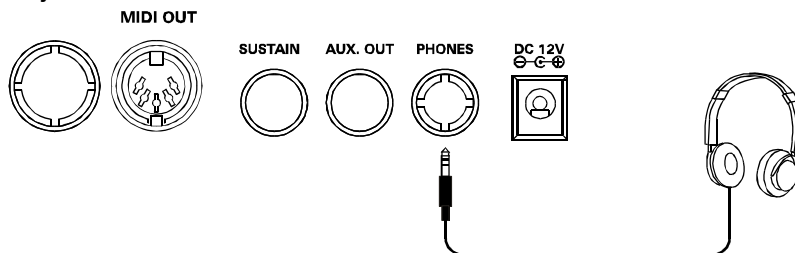
Improper handling of the batteries can cause them to burst or leak, creating the danger of personal injury or damage of the keyboard. Make sure to take the following important precautions when using batteries:

- Never use batteries of different types.
- Never mix old batteries with new ones.
- Always make sure to remove the batteries from the keyboard's battery compartment.
- When the keyboard is not expected to be used for a long period of time, remove the batteries from the keyboard.
- Replace the batteries as soon as possible after any sign of discharge.

Connections

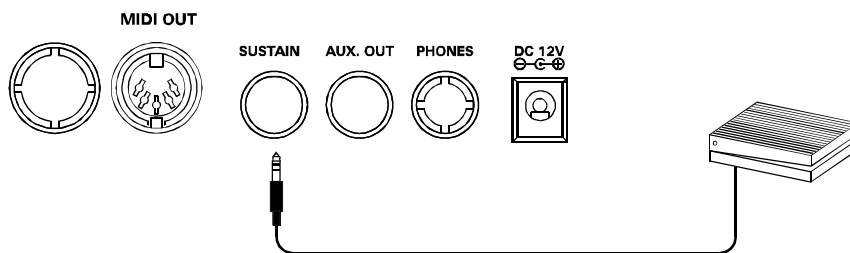
The headphone jack

A pair of stereo headphones can be plugged into the PHONES jack for private practice or late night playing. The internal speaker system is automatically turned off when the headphones are plugged into the PHONES jack.



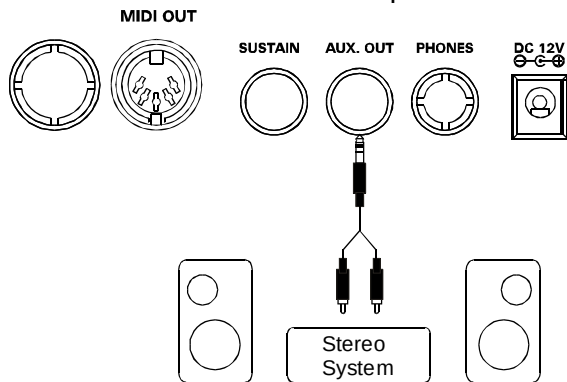
The sustain jack

An optional foot switch can be plugged into the SUSTAIN jack for sustain control. The footswitch function is like the sustain pedal on a piano—press for sustain. Return to normal sound when releasing it.



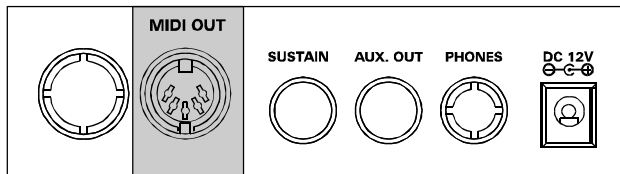
The Aux. Out jack

The AUX. OUT jack delivers the output of the keyboard for connection to an external amplifier. Using an audio cord to plug into AUX. OUT jack located on the rear panel. Then plug the other end of the cord into LINE IN or AUX. IN of the amplifier.



The MIDI OUT jacks

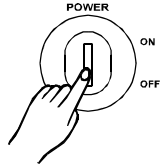
The MIDI OUT connector transmit MIDI data generated by the electronic keyboard to an external MIDI device.



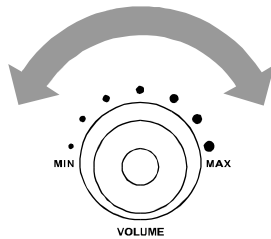
Play demo songs

A selection of 6 demo songs are built-in for the player. They will give you a good idea of what your keyboard can do.

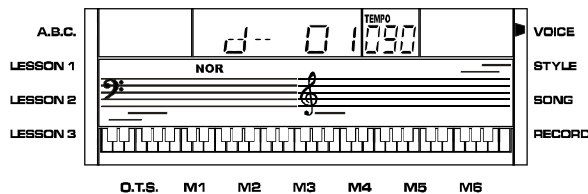
1. Connect the DC power correctly and then press [POWER] to turn it on.



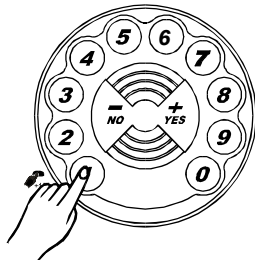
2. Adjust the volume to a appropriate level by turning the [VOLUME] switch.



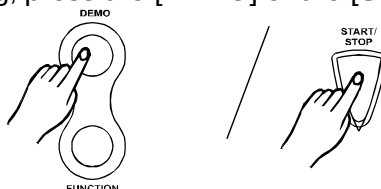
3. Press the [DEMO] button at any status to enter demo mode. All 6 demos will play from the first in sequence. The LCD displays d-xx.



Use the [0-9] or the [-/NO]/[+/YES] button to select demo song. When a song is selected, the song number of the selected song will flash for 3 seconds before the demo song starts.



4. To play a specific demo song in loop, hold the [DEMO] button for 3 seconds while the demo song is playing.
5. To stop the demo song, press the [DEMO] or the [START/STOP] button.

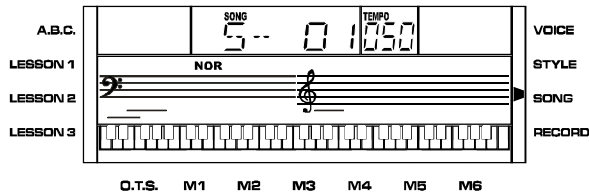


Play the songs

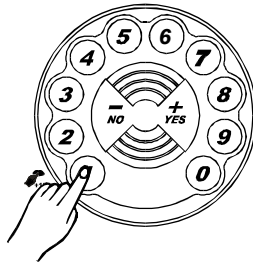
A selection of 50 songs are built-in for the player.

You can use the Melody Off function to turn off the melody of the song and learn to play by following the signals on the display.

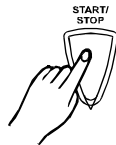
1. Press the [SONG] button. All 100 songs will play from the current song in sequence. At this time, the Song indicator on the LCD will light up, and the LCD displays the song number s-xx.



2. You can use the [0~9] or the [-/NO]/[+/YES] buttons to select a song. When a song is selected, the song number will flash for 3 seconds before the song starts.



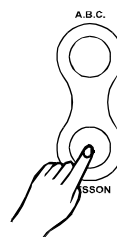
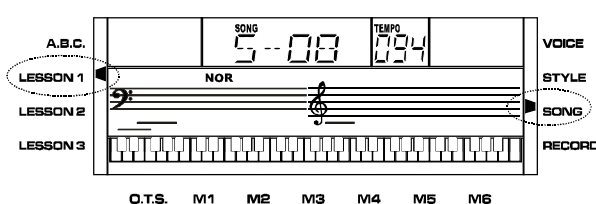
3. Press [START/STOP] again to stop the song.



Note: When song is playing, all keys are inactive, except for pressing [DEMO],[START/STOP], [LESSON],[TEMPO+/-] and [0-9],[+],[-] number keys.

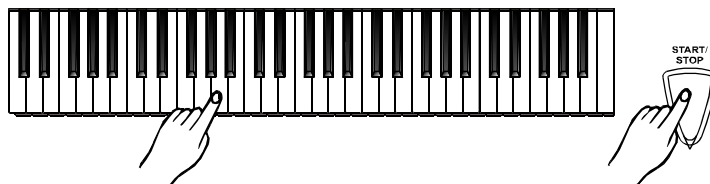
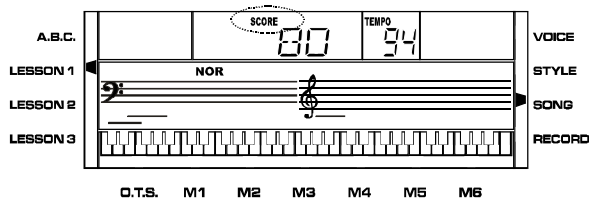
Lesson

In song mode, press the [LESSON] to enter the lesson mode. Three lesson mode LESSON 1,2,3 are provided for users learning



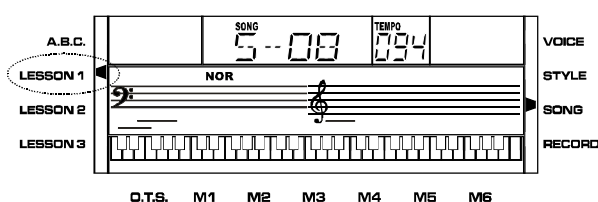
Start lesson:

In song mode, press the [LESSON] button to choose one of the three lesson modes or to exit the lesson mode in a loop. Press the [START/STOP] button to start or stop the lesson. If you play wrong or miss a note, your score will be deducted.



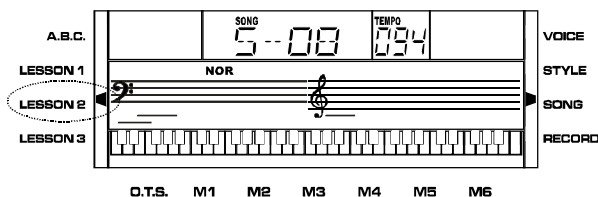
LESSON 1 (One key):

The melody notes are displayed on the LCD. If you press any keys when there is a note in song, the note will sound out correctly no matter what keys you have pressed.



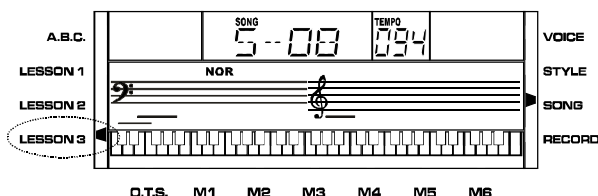
LESSON 2 (Waiting):

The song will not go on until you play the right note.



LESSON 3 (Melody off):

The song will be playing and the melody is off. You should play the note not only correctly but also at the proper time.



Grade:

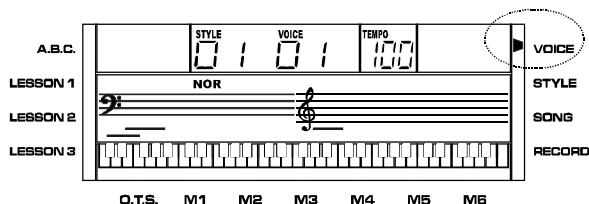
LESSON1, LESSON 2, LESSON 3 all have the grade function. There are four levels. The lesson the LCD will display your score and tell you your level.

Level one: 80—100 excellent
Level two: 60—79 very good
Level three: 30—59 good
Level four: below 30 ok

After a grade is given, the SONG will play again and retain the lesson mode.

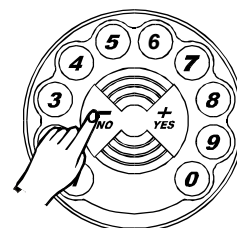
Select & Playing Voices

The keyboard has 128 voices that you can select and play on the keyboard. Before you select a voice, make sure you have selected VOICE mode. Press the [VOICE] button to select the VOICE mode.



The[+/YES] and [-/NO] buttons:

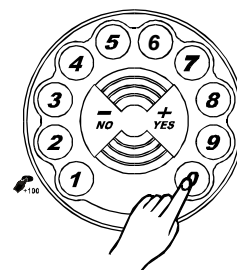
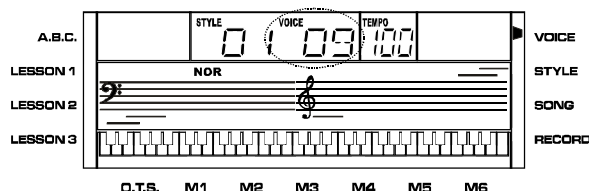
Press [VOICE] button to enter voice mode.
Press [+/YES]/[-/NO] button to choose your desired voice.
The selected voice number will show on the display.



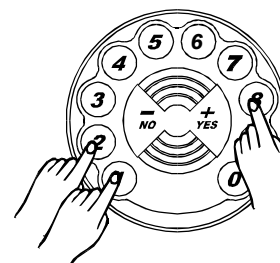
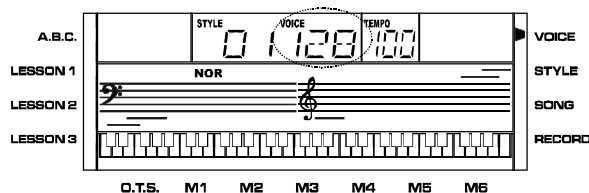
The number buttons:

The number buttons can be used to directly press the number of the desired voice.

1. When selecting voice 01-99, you can directly use the number key [0-9] to input the voice number.



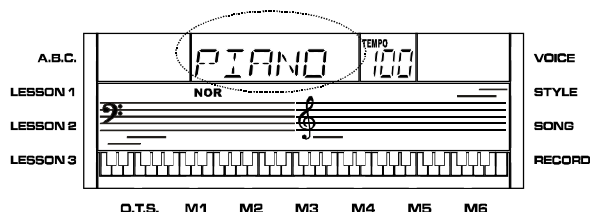
2. To select voice 100-128, press the number key [1] and hold it for few seconds. The LCD will then display 1 which indicates one hundred. After that, use the key number to input 00-28 for voice 100-128.



Voice and Effects

Piano voice

Press [PIANO] to the piano mode. The LCD displays PIANO, and the voice is changed to piano immediately.



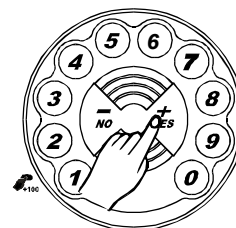
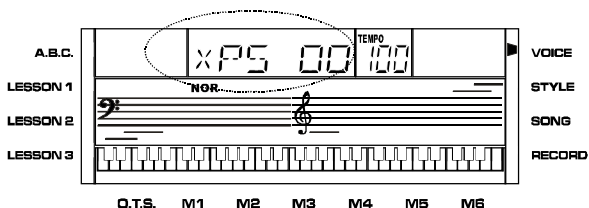
The piano mode does not function when the style is playing. Press [PIANO] again or [FUNCTION], [DEMO], [VOICE], [O.T.S.], [REPLAY], [SONG], [STYLE], [RECORD] and the memory keys will exit the PIANO mode. The LCD and the voice will revert back to the former status.

If you don't use the [PIANO] to exit, the voice will retain as the piano voice.

Transpose and pitch change

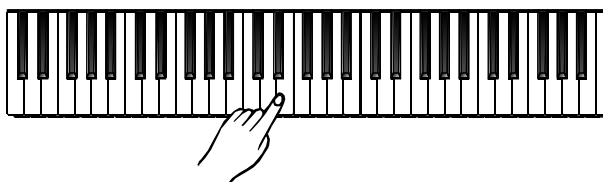
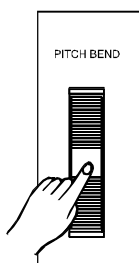
Transpose:

Press [FUNCTION], and the LCD will display “XPS 00”. Use the[+] or[-] to shift the pitch in range of ± 6 semi-tone.



Pitch bend wheel:

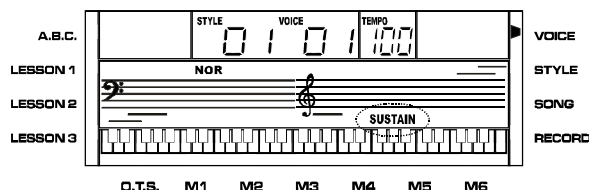
Rolling the [PITCH BEND] will shift the pitch in range of ± 2 semi-tone. Rolling up makes the pitch increase, and vice versa when rolling down.



Sustain voice

After power is turned on, the Sustain function is automatically set to off.

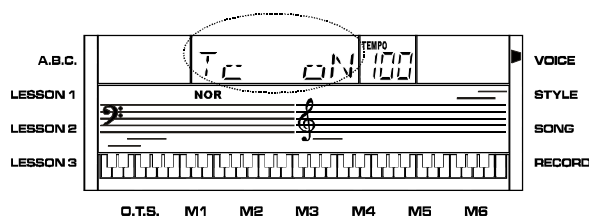
Press the [SUSTAIN] button to shift the SUSTAIN ON/OFF status and the SUSTAIN indicator on the LCD will light on or off in this status.



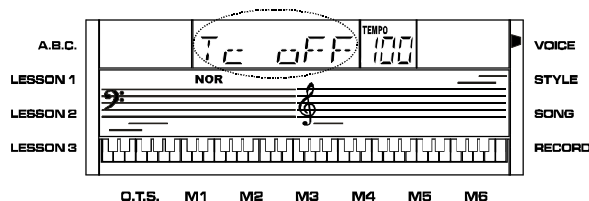
You can also control the sustain effect by a sustain pedal.

Touch

There are 16 velocity levels. After power is turned on, the touch function is automatically set to on. Press the [TOUCH] button and the LCD displays "TC On".



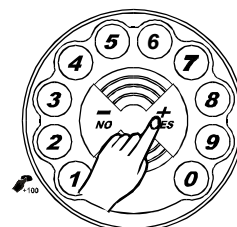
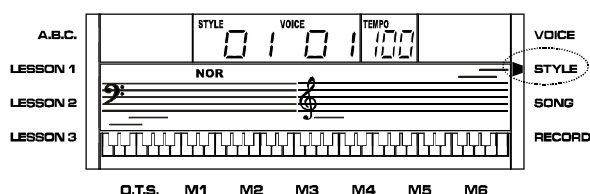
To turn off the touch function, press the [TOUCH] button again and the LCD displays: "TC OFF".



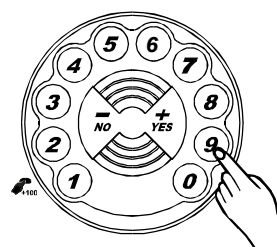
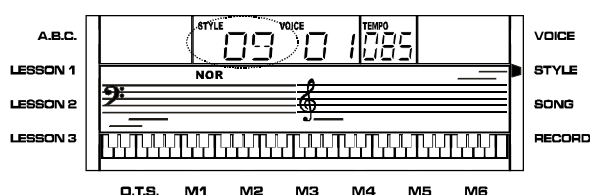
Selecting a Style

The keyboard has 100 different auto-accompaniment styles. Its sophisticated Auto Accompaniment system can provide automatic bass and chord backing that perfectly match to the selected accompaniment style.

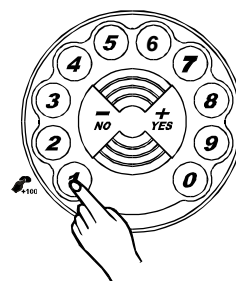
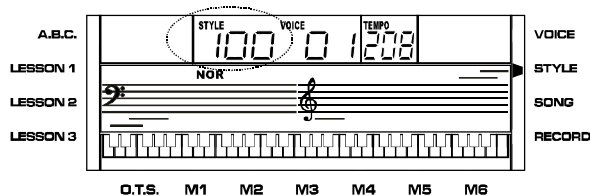
After power is turned on, the style is automatically set to number one. When you press [STYLE] button, the STYLE flag lights, and you can use [+] / [–] or the number keys to select the desired style.



When selecting style 01-99, you can directly use the number key [0-9] to input the style number.



When selecting style 100, you must press the number key [1] and hold it for a few seconds.



When a style is playing, you can select a new style at any time. The number of the new style will display on the LCD immediately. If the style changes at beat one, the new style will play at once; if the style changes at the other beats, the new style will start in next measure. The new style will play with the old tempo.

Playing a Style

Playing a selected Style

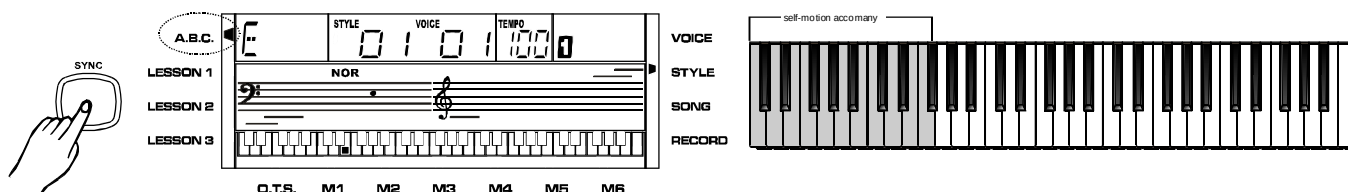
Start a style

Press [START/STOP] button, the drum part of the style will play at once. When the ABC is turned on, you can hear the drum part as well as the bass and chord after you play a chord.



Sync start

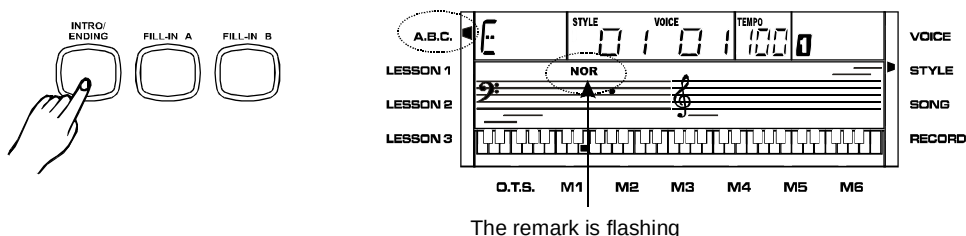
Press [SYNC] button and the beat indicator will flash at the speed of current tempo. You can start playing the song by tapping any keys on the keyboard when the ABC is off. When ABC is turned on, you can only start the style with the chord and bass by tapping a chord in the chord range of the keyboard.



Press the [INTRO/ENDING] before start the style:

The style will enter NORMAL or VARIATION after playing an intro. You can insert a fill in and enter two different status, NORMAL and VARIATION by using [FILL-IN A] and [FILL-IN B] respectively.

You can also use the [INTRO/ENDING] to stop the style after the style is playing at the end.

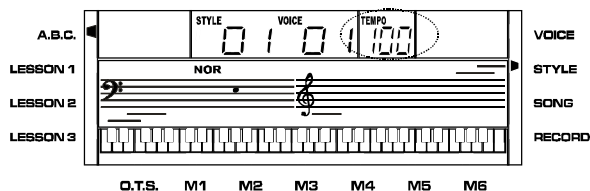
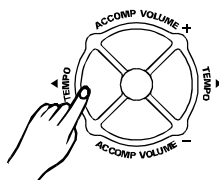


To insert an introduction, press [INTRO] before pressing [START/STOP] button.
To stop playing a style, press [START/STOP].

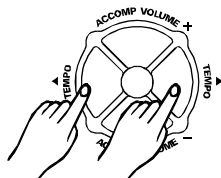


Set the Tempo

Press [TEMPO +] and [TEMPO-] button to change the style tempo.
(Ranging from 30-280)



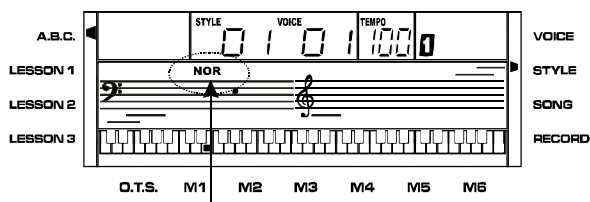
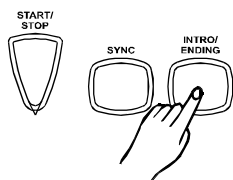
When style stops, the tempo will change with the style's default tempo.
When style is playing, the tempo will not change with the style.
To revert back the default tempo of a style, press both [TEMPO+] and [TEMPO-]
button simultaneously.



Style control

INTRO:

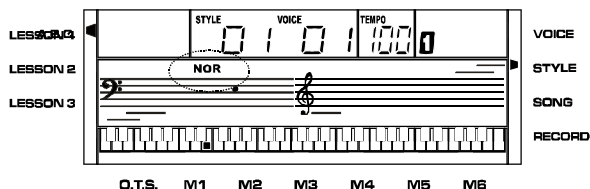
When the style stops, press [INTRO/ENDING], then press [START/STOP] or [SYNC] to select different kind of starting mode. If you press a valid chord, you can hear a wonderful intro which will lead you to the main style. The indicator either NOR or VAR on the LCD will flash when an intro is playing.



The remark is flashing

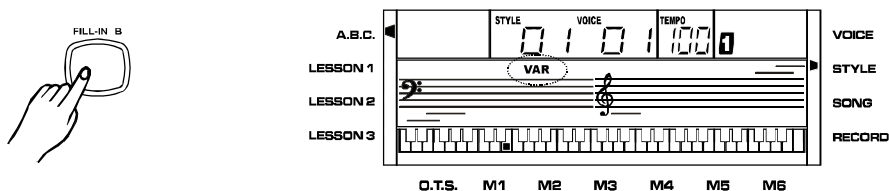
FILL-IN A:

When the style is playing, press [FILL-IN A] to insert a fill in and enter the normal status.
When fill in is playing, the indicator NOR on the LCD is flashing.



FILL-IN B:

When the style is playing, press [FILL-IN B] to insert a fill in and enter the variation status. When fill in is playing, the indicator VAR on the LCD is flashing.



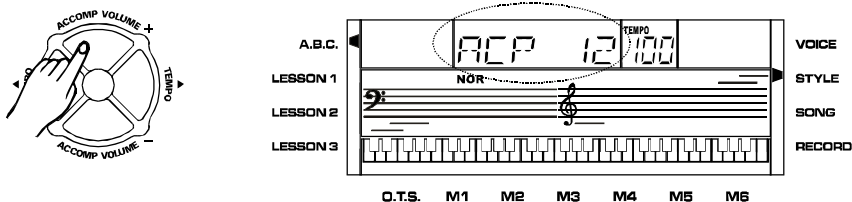
ENDING:

When the style is playing, press [INTRO/ENDING] to play an ending. Normally the style ends with the ending. You can also use the [FILL -IN A]/[FILL-IN B] to make the style go back to the normal or variations status when an ending is playing. The indicator NOR or VAR on the LCD will flash when an ending is playing.

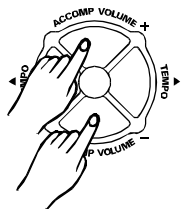


Accomp Volume

Press the [ACCOMP.VOLUME+]/[ACCOMP.VOLUME-] button to change the style volume. The LCD will display ACP XX. The range is from 0 to 15. These buttons are inactive in SONG mode.



Press both [ACCOMP.VOLUME+] and [ACCOMP.VOLUME-] at the same time to revert the accomp volume back to default 12.

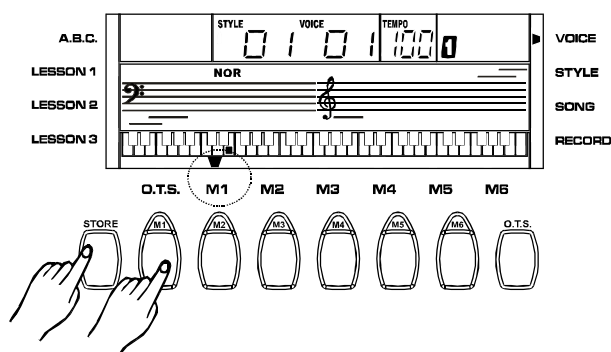


Memory

There are 6 memories in the keyboard.

Press and hold the [STORE] button. Then press M1(or M2-M3) to store the voice ,style, tempo, accomp volume, sustain, touch.

You can easily recall them by pressing the button during the performance.

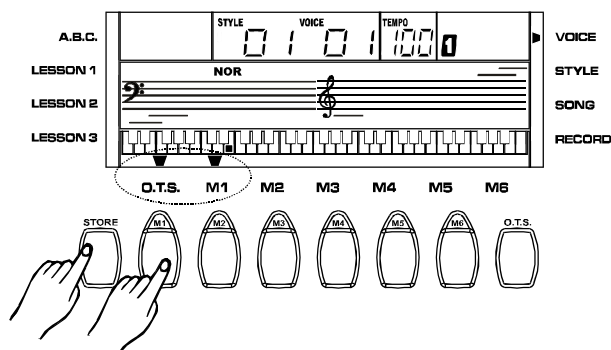


The memory data will change to its default after power off.

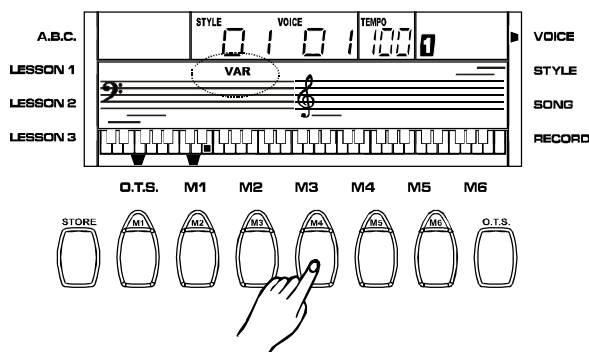
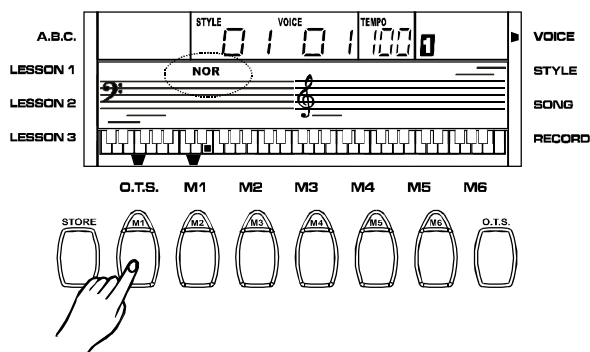
One touch setting

Using the O.T.S. buttons to select proper voice to match the style. Each style has 4 sets of O.T.S. setting. You can only recall them .

Press [O.T.S.] button to O.T.S. setting. The indicators of O.T.S. and M1 on LCD both light up. A fill in is inserted and the voice changes as pre-set according to the style.



[M1] and [M2] are used for normal. [M3] and [M4] are used for variation, [M5] and [M6] do not function.



Press [O.T.S.] again to exit the O.T.S. status. The [M1-M6] are used for memory registers again.

Note: you can not use the memory in O.T.S. Status.

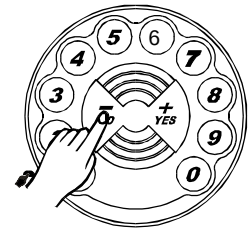
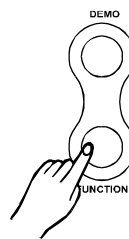
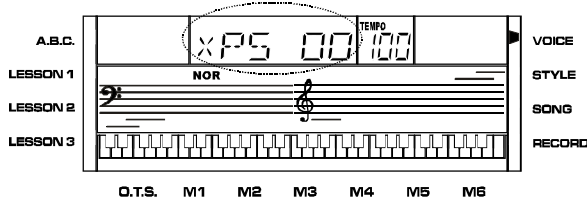
Function Select

1. Function parameter:

Contents	LCD display	Range	Default
TRANPOSE	XPS 00	-6 – +6	0
BEAT	MET 04	00, 02-09	04
MIDI	CHA 01	01– 16	01
EFFECT	EFF ON	ON/OFF	OFF

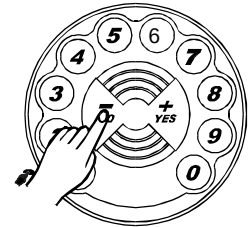
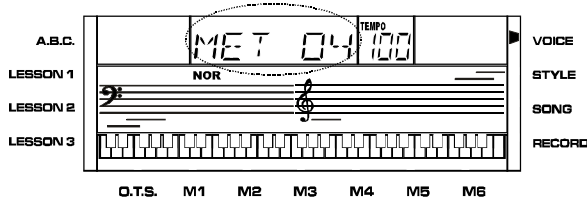
2. Transpose:

Press [FUNCTION] button and the LCD displays : XPS 00, then use the [+] / [-] to change the transpose value from 6 to +6.



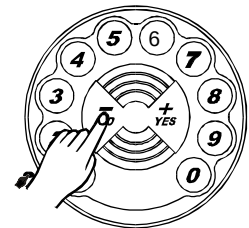
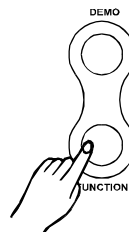
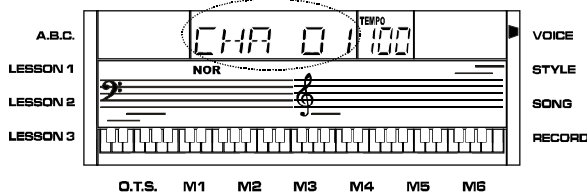
3. Beat:

Press [FUNCTION] button two times and the LCD displays: MET 04, then use the [+] / [-] to change the metro beat , 0,2,3,4,5,6,7,8,9.



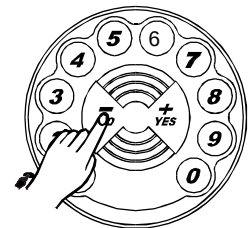
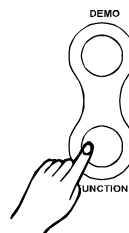
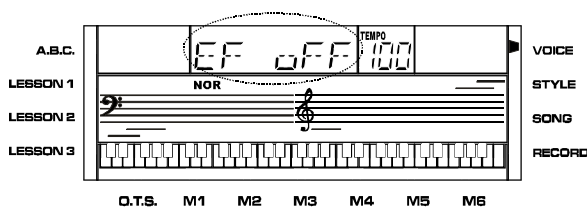
4. MIDI channel:

Press [FUNCTION] button three times and the LCD displays: CHA XX, then use the [+] / [-] to change the MIDI out channel ranging from 01 to 16.



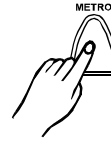
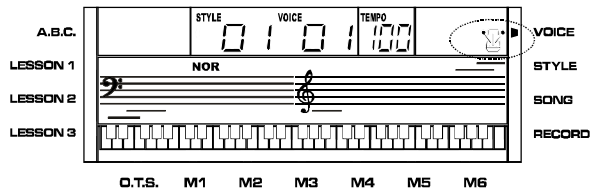
4. Effect:

Press [FUNCTION] button four times and the LCD displays: Eff Off, then use the [+] / [-] to change the effect to on or off.



Metronome

Press the [METRO] button, then the metronome will work as the current tempo, and the beat dot will flash one by one. The tempo can be changed. Press the [METRO] again to turn the metronome off.



The beat count follows as the style when style is playing. The value is in beat when the style stops.

The metro is inactive in SONG mode and DICT mode.

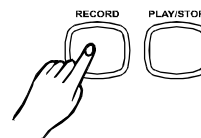
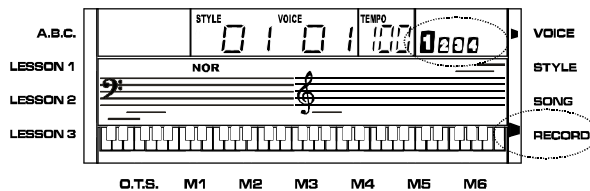
Note: When recording, you can turn the metronome on but it isn't being recorded.

Record and play back

Record

1. Ready record :

Press [RECORD], and the RECORD indicator on the LCD lights up. Four beat dots flash together indicating it is in the record ready status. You can change the voice, style and so on before recording.

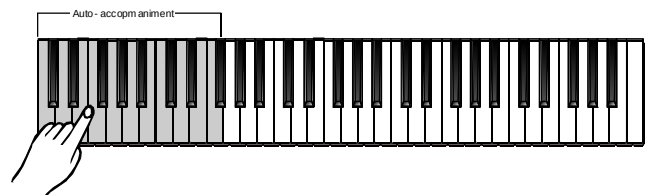
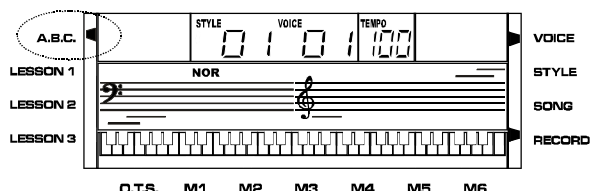


2. Start record :

In record ready status, press [START/STOP] to start the style and enter recording mode. You can use the [START/STOP] to start or stop the style during recording.



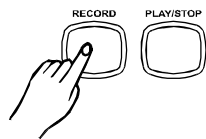
In record ready status, you can enter the recording mode by pressing the keyboard. Meanwhile when ABC is on, pressing the keys on the left hand area can start the style directly. (When ABC is off, you can start the style only by [START/STOP] button.)



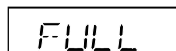
In record ready status, the [SYNC] button is inactive.

3. Finish record :

Press [RECORD] button to stop recording.



If the memory for record is full, the recording stops automatically and the LCD displays: FULL for a few seconds.



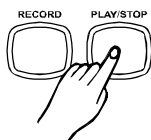
When style is playing, press the [INTRO/ENDING] button .
When ending is over, the recording stops automatically.



Play back

When recording stops, press [PLAY/STOP] to play back your record.

Press [PLAY/STOP] again to stop it.



Note :

- 1.The recorded data in the memory will be lost if you turn off the the keyboard.
- 2.You can only record one track and the re-recording operation will cover the previous record.

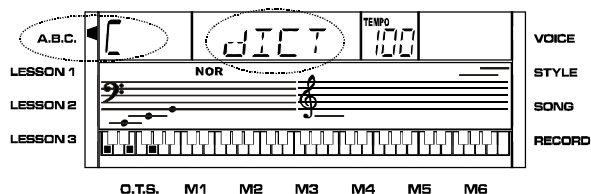
Chord Dictionary

You can use this function to learn how to play chords.

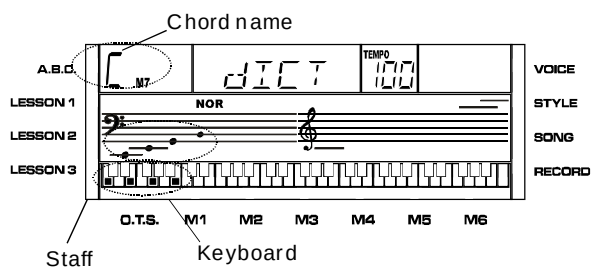
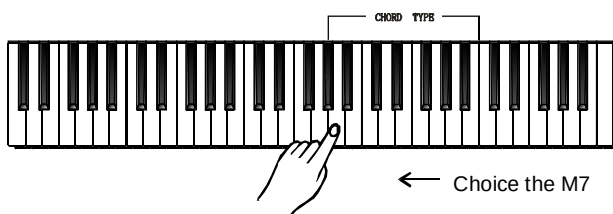
You can not enter the DICTIONARY mode when metro, song or style is on.

Operation guide :

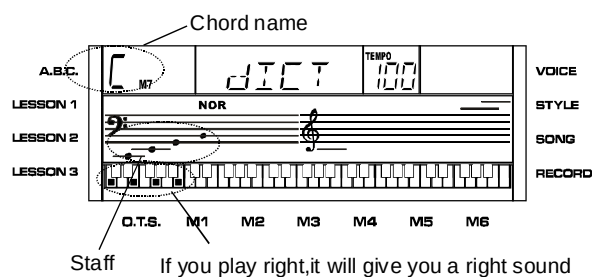
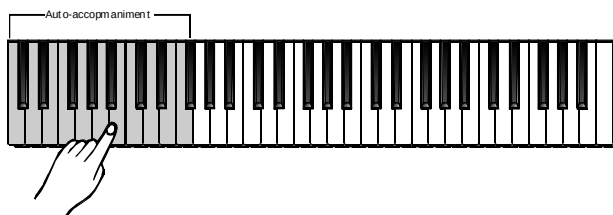
1. Press the [CHORD DICTIONARY] button, and the LCD displays DICT.
The default chord is CM.



2. Press any keys on chord area or press the corresponding keys according to the label showing the chord root and chord type. Then the LCD will show you the right keys you should play.



3. Press the keys according to the LCD. If you play right, the keyboard will give you a sound.

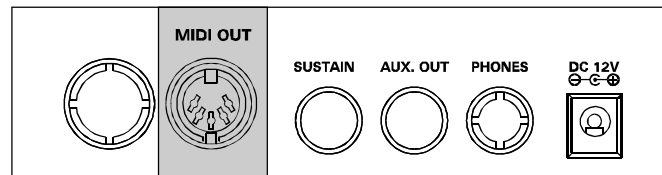


MIDI

What is MIDI?

MIDI stand for Musical Instrument Digital Interface. MIDI is a world wide standard that makes it possible for various electronic musical instruments and other devices, such as computers, to "communicate with each other".

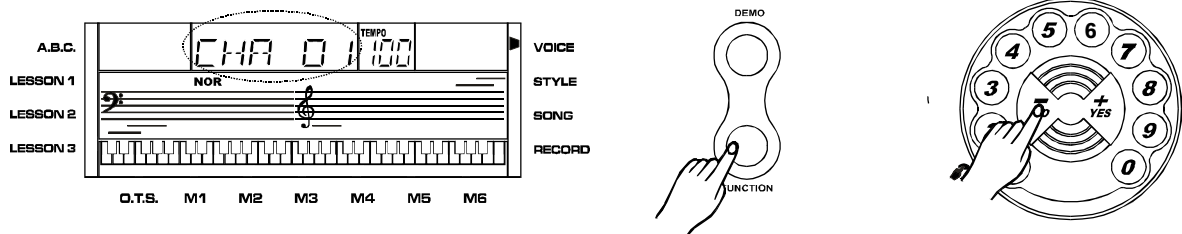
The keyboard is equipped with MIDI OUT terminals, which located on the rear panel.



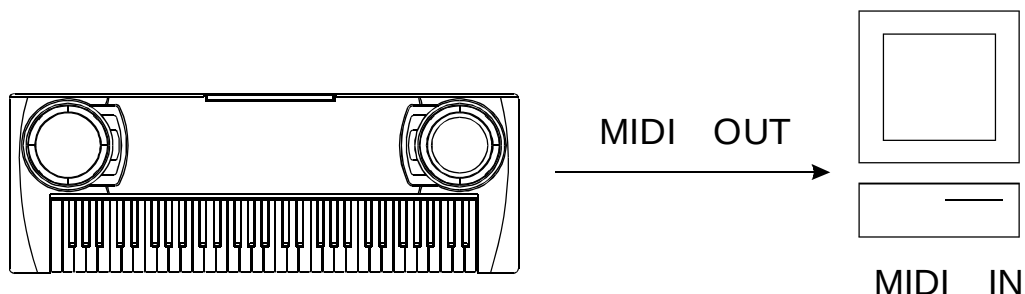
MIDI OUT

It can send out several kinds of MIDI messages (such as: PROGRAM CHANGE, NOTE, PITCHBEND and so on). Please refer to the MIDI Chart list.

You can change the MIDI out channel. Press [FUNCTION] button two times and the LCD displays :CHA XX, then use the [+]/[-] to change the MIDI out channel ranging from 01 to 16.



There will be an all note off message to be sent out whenever there is a transpose, a midi channel change or start the demo.



Specifications

Keys:	61 keys with Touch Response
LCD Display :	Multi-functional LCD
Voices:	128 voices, including 121 PCM voices, 6 Chinese voices and one of drum kit
Styles:	100 styles
Song:	100 songs of different style, 3 lesson modes for user learning
DEMO Song:	6 demo songs
Overall Control:	Transpose, Beat, Split Point, Pitch Bend, Effect, MIDI Channel, Metronome, Lesson, O.T.S, Touch, Sustain Pedal , Store, Chord Dictionary, Piano
Accompaniment Control:	Sync, Start/stop, Fill in A/Fill in B, Intro/Ending
Other Control:	Record & Playback
Connectors:	DC 12V, Phones, Aux. Out, Sustain, MIDI OUT
Weight:	5.3 kg(without batteries)
Dimensions:	990(W) x 350(D) x 150(H)mm

Appendix 1-Voice List

PC	GENERAL MIDI	PC	GENERAL MIDI	PC	GENERAL MIDI	PC	GENERAL MIDI
1	(Grand) Piano 1	33	Acoustic Bass	65	Soprano Sax	97	FX 1 (rain)
2	(Bright) Piano 2	34	Finger Bass	66	Alto Sax	98	FX 2 (soundtrack)
3	(El. Grd) Piano 3	35	Picked Bass	67	Tenor Sax	99	FX 3 (crdystal)
4	Honkytonk Piano	36	Fretless Bass	68	Baritone Sax	100	FX4 (atmosphere)
5	El. Piano 1	37	Slap Bass 1	69	Oboe	101	FX 5 (brightness)
6	El. Piano 2	38	Slap Bass 2	70	English Horn	102	FX 6 (goblins)
7	Harpsichord	39	Synth Bass 1	71	Bassoon	103	FX 7 (echoes)
8	Clavi	40	Synth Bass 2	72	Clarinet	104	FX 8 (scifi)
9	Celesta	41	Violin	73	Piccolo	105	Sitar
10	Glockenspiel	42	Viola	74	Flute	106	Banjo
11	Music Box	43	Cello	75	Recorder	107	Shamisen
12	Vibraphone	44	Contrabass	76	Pan Flute	108	Koto
13	Marimba	45	Tremolo Strings	77	Blown Bottle	109	Kalimba
14	Xylophone	46	Pizzicato Strings	78	Shakuhachi	110	Bag pipe
15	Tubular Bells	47	Orchestral Harp	79	Whistle	111	Fiddle
16	Santur	48	Timpani	80	Ocarina	112	Shanai
17	Drawbar Organ	49	String Ensemble 1	81	Lead 1 (square)	113	Tinkle Bell
18	Percussive Organ	50	String Ensemble 2	82	Lead 2 (sawtooth)	114	Agogo
19	Rock Organ	51	Synth Strings 1	83	Lead 3 (calliope)	115	Steel Drums
20	Church Organ	52	Synth Strings 2	84	Lead 4 (chiff)	116	Woodblock
21	Reed Organ	53	Choir Aahs	85	Lead 5 (charang)	117	Taiko Drum
22	Accordion (french)	54	Voice Oohs	86	Lead 6 (voice)	118	Melodic Tom
23	Harmonica	55	Synth Voice	87	Lead 7 (fifths)	119	Synth Drum
24	Tango Accordion	56	Orchestra Hit	88	Lead8 (bass+lead)	120	Gt. Fret Noise
25	Ac. Guitar (nylon)	57	Trumpet	89	Pad 1 (fantasia)	121	Breath Noise
26	Ac. Guitar (steel)	58	Trombone	90	Pad 2 (warm)	122	Qudi
27	El. Guitar (jazz)	59	Tuba	91	Pad 3 (polysynth)	123	Xiao
28	El. Guitar (clean)	60	Muted Trumpet	92	Pad 4 (choir)	124	Erhu
29	El. Guitar (muted)	61	French Horn	93	Pad 5 (bowed)	125	Guzheng
30	Overdriven Guitar	62	Brass Section	94	Pad 6 (metallic)	126	Pipa
31	Distortion Guitar	63	Synth Brass 1	95	Pad 7 (halo)	127	Sona
32	Guitar harmonics	64	Synth Brass2	96	Pad 8 (sweep)	128	Drum Set

Appendix 2-Style List

No.	Style
8 Beat	
01	8 Beat 1
02	8 Beat 2
03	8 Beat 3
04	8 Beat 4
05	8 Beat Pop
06	8 Beat Ballad
07	8 Beat Rock
16 BEAT	
08	16 Beat 1
09	16 Beat 2
10	16 Beat 3
11	16 Beat Pop
12	16 Beat Shuffle
13	16 Beat Funk
14	Ballad
15	Slow Ballad
16	Funk Ballad
17	16 Beat Ballad
ROCK 1	
18	Rock
19	Rock 'N' Roll 1
20	Rock 'N' Roll 2
21	Slow Rock 1
22	Slow Rock 2
23	Hard Rock
24	Heavy Metal
25	6/8 Rock
26	Jazz Rock
FUNK & SOUL	
27	Funk
28	Funky Pop
29	Soul 1
30	Soul 2
31	Soul Shuffle
32	R & B 1
33	R & B 2
34	6/8 Gospel
35	Pop Groove

No.	Style
ROCK 2	
36	Boogie Woogie
37	Blues Boogie
38	Blues
39	Shuffle
40	Blues Shuffle
41	Rock Shuffle
42	50's Rock
43	Twist
44	Charl
DANCE	
45	Disco 1
46	Disco 2
47	Disco Funk
48	Dance 1
49	Dance 2
50	House 1
51	Rap 1
52	Rap 2
53	Euro Beat
54	Hip Hop
55	Techno 1
56	Techno 2
57	Fusion
JAZZ & SWING	
58	Swing 1
59	Cool Jazz
60	Pop Swing
61	Swing Fox
62	Jazz Ballad
63	Big Band 1
64	Big Band 2
65	Jazz Waltz
66	Ragtime
67	Dixieland
68	Foxtrot
69	Quick Step

No.	Style
COUNTRY	
70	Country 1
71	Country 2
72	Pop Country
73	Country Rock
74	Country Ballad
75	Country Shuffle
76	Bluegrass
LATIN	
77	Bossa Nova 1
78	Bossa Nova 2
79	Rhumba
80	Rop Rhumba
81	Cha Cha 1
82	Cha Cha 2
83	Samba
84	Jazz Samba
85	Beguine
86	Mambo
87	Tango
88	Salsa
89	Reggae
90	Pop Reggae
TRADITIONAL	
91	March 1
92	March 2
93	German March
94	6/8 March
95	Polka
96	Polka Pop
97	Waltz
98	Slow Waltz
99	Vienna Waltz
100	Musette

Appendix 3-Song List

No.	Song name
Classic	
01	Cannon
02	Thais Meditation
03	Old France
04	Minuet
05	Ode To Joy
06	Wiegenlied
07	"The Surprise" Symphony
08	Swan Lake
09	Spring From "The Four Seasons"
10	Habanera From "Carmen"
11	Joy To The World
12	Toy Symphony
13	Humoreske
14	Kuckuckswalzer
Favorite	
15	Long, Long Ago
16	Old Folks At Home
17	Oh! Susanna
18	Jeannie With The Light Brown Hair
19	Bill Bailey Won't You Come Home
20	Annie Laurie
21	From The New World
22	The Yellow Rose Of Texas
23	Ave Maria
24	My Old Kentucky Home
25	Turkey In The Straw
26	Deck The Halls
27	Grandfather's Clock
28	America The Beautiful
29	The Sideway
30	The Entertainer
31	The Old Gray Mare
32	Aloha Oe
33	Solveig's Song
34	Camptown Races
35	Carry Me Back To Old Virginia
36	The Blue-Bells Of Scotland
37	O'Solo Mio
38	Jingle Bells
39	Battle Hymne Of The Republic
40	Silent Night
Folk	
41	О г о н е к
42	Aula Lee
43	House Of The Rising Son
44	Danny Boy
45	I've Been Working On The Railroad
46	In The Rain
47	She Wore A Yellow Ribbon
48	My Bonnie
49	Yankee Doodle
50	Red River Valley
51	Auld Lang Syne
52	When The Saints Go Marching In
53	Twinkle Twinkle Little Star
54	Happy Birthday To You
55	Little Brown Jug
56	Michael Row The Boat Ashore
57	Old King Cole
58	Jamaica Farewell
59	Т р о й к а
60	Cielito Lindo
61	If You're Happy And You Know It, Clap Your Hands

No.	Song name
62	American Patrol
63	When Johnny Comes Marching Home
64	Green Sleeves
65	Santa Lucia
66	Szla Dzieweczka
Kid's Song	
67	Angels We Have Heard On High
68	Skip To My Lou
69	London Bridge Is Falling Down
70	Humpty Dumpty
71	Home On The Range
72	This Old Man
73	Butterfly
74	Ten Little Indians
75	Polly-Wolly-Doodle
76	Santa Claus Is Coming To Town
77	Sippin Cider Through A Straw
78	La Cucaracha
79	Home Sweet Home
80	Up On The House Top
Ballroom	
81	Kuerchake
82	Samba
83	Tango Of Cuba
84	Russian
85	Polka
Piano	
86	All Kind Of My Everything
87	Rondeau
88	Reggae
89	Impromptu
90	Jesus, Saviour Pilot me
91	Gavotte
92	Nocturne
93	Pizzicato Polka
94	Musical Moments
95	Valse No.6 "Petit Chien"
96	Did You Ever See a Lassie
97	Invention a 2 Voix
98	End Of Summer
99	Alaif
100	Chrysanf

Appendix 4-DEMO List

No.	DEMO name
1	All Kind Of My Everything
2	Russian
3	Old France
4	Jingle Bells
5	Szla Dzieweczka
6	Butterfly

Appendix 5-MIDI implementation chart

Function	Transmitted	Remarks
Basic Default	1ch	
Channel Changed	1ch—16ch	
Note Number : True voice	28-104 *****	
Velocity : Note on Note off	16 Level 00	
Pitch Bend	○	
Control 64 123	○ ○	Sustain & Pedal All notes off
Program Change : true	0~127 *****	

Appendix 6-Chord Table

	Chord Name[Abbreviation]	Normal Voicing	Chord	Display
0	Major[M]	1-3-5	C	C
1	Major sixth[6]	1-(3)-5-6	C6	C6
2	Major seventh[M7]	1-3-(5)-7	CM7	CM7
3	Major ninth[M9]	1-2-3-(5)-7	CM9	CM7(9)
4	augmented[aug]	1-3-#5	Caug	Caug
5	Minor[m]	1-b3-5	Cm	Cm
6	Minor sixth[m6]	1-b3-5-6	Cm6	Cm6
7	Minor Seventh[m7]	1-b3-(5)-b7	Cm7	Cm7
8	Minor seventh flatted fifth[m7b5]	1-b3-b5-b7	Cm7b5	Cm7 b5
9	Minor major ninth[mM7]	1-b3-(5)-7	CmM7	CmM7
10	Diminished[dim]	1-b3-b5	Cdim	Cdim
11	Diminished seventh[dim7]	1-b3-b5-6	Cdim7	Cdim7
12	Seventh[7]	1-3-(5)-b7	C7	C7
13	Seventh suspended Fourth[7sus4]	1-4-5-b7	C7sus4	C7sus4
14	Seventh thirteenth[7 13]	1-3-(5)-6-b7 or 2-3-5-6-b7	C7 13	C7(13)
15	Suspended Fourth[sus4]	1-4-5	Csus4	Csus4